

**AMENDMENTS TO THE DRAWINGS:**

The attached sheet of drawings containing Figures 1 and 2 replaces the original sheet of drawings containing Figures 1 and 2. The attached replacement sheet includes changes to Figure 1. In Figure 1, the label “PRIOR ART” has been added as suggested by the Examiner.

Attachments:

- Replacement Sheet

**REMARKS**

By this Amendment, Fig. 1 is amended, claims 1, 7 and 9 are amended, and claims 17-19 are canceled. Accordingly, claims 1-16 are pending in this application. No new matter is presented in this Amendment.

The Office Action objects to Fig. 1 based upon informalities. Fig. 1 is amended to obviate the objection. Specifically, Fig. 1 has been designated by the legend, "Prior Art." Accordingly, withdrawal of the objection to the drawings is respectfully requested.

The Office Action rejects claim 1 under 35 U.S.C. §112, second paragraph, asserting that the claim is indefinite because the Applicant has defined a term of the claim contrary to its ordinary meaning and the specification does not clearly redefine the term. Specifically, the Office Action asserts that "[t]he term glue in claim 4 appears to be used by the claim to mean 'lens', as indicated by Figure 4. However, the accepted meaning is a substance that is used to attach one material to another. The term is indefinite because the specification does not clearly redefine the term." This rejection is respectfully traversed.

Applicant respectfully submits that the term "glue," as applied in claim 1, is used in according to its ordinary meaning as an adhesive or cement. The Applicant further submits that the term "optical glue", as recited in claim 1, is an element separate and distinct from the lens. Indeed, the specification, at page 6, lines 6-9, discloses wherein "[o]ptical glue 108 and lens 109 are provided on the LED chip 101, light conversion material 213 is provided between optical glue 108 and lens 109 to converse the light emitted from the LED chip 101 into different color light." The Applicant further submits that the term "optical glue" is well known in the art of optics for attaching optical components.

The Office Action further rejects claims 7 and 10 under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the Applicant regards as the invention, asserting insufficient antecedent basis for the terms "the LED axis" in claim 4, and "the electrical connector" in claim 10. This rejection is respectfully traversed.

Claim 7 has been amended to recite wherein ". . . an angle between the light reflecting

surface and a LED axis is an angle from 10° to 70 °," (emphasis included). In addition, claim 9 has been amended to recite "a driving circuit including an electrical connector . . . ."

In view of the foregoing, Applicant respectfully submits that claims 4, 7 and 10 fully comply with 35 U.S.C. §112, second paragraph. Accordingly, withdrawal of the rejection is respectfully requested.

The Office Action rejects claims 1-5, 7 and 8 under 35 U.S.C. §102(e) over U.S. Patent No. 6,568,833 to Worgan et al. ("Worgan"). This rejection is respectfully traversed.

Independent claim 1 has been amended to more clearly recite the claimed subject matter and is not intended to narrow the scope of the recited claims. As such, independent claim 1 recites, *inter alia*, at least one led chip directly mounted on a base of high heat conductivity. Worgan does not disclose, teach or suggest this feature.

Worgan only discloses, at page 2, lines 20-24, "a light comprising a base for mounting the light, a chassis upstanding from the base, a circuit board mounted upon an outer face of the chassis and at least one solid state emitter mounted upon the circuit board." Applicant respectfully submits that unlike the Applicant's LED, wherein the at least one solid state emitter is mounted directly on the base, Worgan only discloses a solid state emitter mounted to a circuit board and it is the circuit board of Worgan that is mounted to the chassis.

Indeed, if one were to submit that the base, as recited in claim 1, is disclosed by the chassis of Worgan, Fig. 3 of Worgan clearly illustrates that solid state emitters 24 and 26, mounted to circuit board 11, could not, in any disclosed embodiment, be directly mounted to the chassis 8. Nowhere does Worgan disclose, teach or suggest, at least one led chip being mounted directly on a base of high heat conductivity, as recited in independent claim 1.

Accordingly, because Worgan does not disclose, teach or suggest each and every limitation recited in claim 1, the rejection of claim 1 under 35 U.S.C. §102(e) is improper. Applicants respectfully submit, therefore, that independent claim 1 is patentable over Worgan.

Claims 2-5, 7 and 8 depend from independent claim 1 and are likewise patentable over Worgan at least for their dependence on claim 1, an allowable base claim, as well as for additional features they recite. Withdrawal of the rejection of claims 1-5, 7 and 8 under 35 U.S.C. §102(e) is

respectfully requested.

The Office Action rejects claims 6 and 9-16 under 35 U.S.C. §103(a) over Worgan in view of one or more of U.S. Patent No 6,220,722 to Begemann, U.S. Patent No. 3,936,686 to Moore, and the Applicant's admitted prior art. This rejection is respectfully traversed.

Applicants respectfully submit that, as discussed above, independent claim 1 is patentable over Worgan. Begemann, Moore, and the Applicant's admitted prior art likewise fail to disclose at least one led chip being mounted directly on a base of high heat conductivity, as recited in independent claim 1.

Therefore, Applicant respectfully submits that the combination of the applied references fails to disclose, teach or suggest all the features recited in claim 1. Accordingly, claim 1 is patentable over the applied reference, and claims 6 and 9-16 are likewise patentable over the applied references at least in view of their dependence on claim 1. Withdrawal of the rejection is respectfully requested.

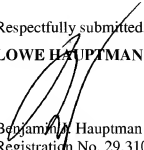
In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1-16 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

**LOWE HAUPTMAN & BERNER, LLP**



Benjamin A. Hauptman  
Registration No. 29,310

1700 Diagonal Road, Suite 300  
Alexandria, Virginia 22314  
(703) 684-1111 BJH/ERM/klb  
(703) 518-5499 Facsimile  
**Date: September 15, 2006**